



14 Aug 1945

## The Missouri Miner, August 14, 1945

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AUGUST 7, 1945

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# The Missouri Miner

## Missouri School of Mines & Metallurgy



Volume 31

(Featuring Activities of Students and Faculty of MSM)

Number 10

### General Electric Trains Technicians

Schnectady, N. Y., Aug. 11.—The General Electric Aeronautical and Marine Technical school, designed to train both civilian and military personnel in installation, maintenance and repair of new fighting equipment, has graduated a total of 559 key individuals since inception of the school in 1942, according to Edwin A. Hilbert, supervisor of the school. Of the total, 220 graduates have been Army and Navy instructors and supervisors, 239 have been General Electric engineers, and 100 have been representatives of manufacturers.

Now in its fourth year, the school has evolved mainly a two-fold purpose, according to Mr. Hilbert. First, it keeps the military abreast of and trained in use of new aeronautical developments. Second, it provides G-E and other civilian scientists a wider and more practical scope of the field and its problems which in turn affords them a greater insight for designing and producing future aircraft equipment.

The school, since inception, has conducted more than 25 separate classes in approximately a dozen courses. Contrary to probable expectation, more than a few of the highly technical studies have proved far from "dry" by employment wherever possible of elaborate simulated field conditions.

For security purposes, some courses are still withheld from publication. Now mentionable, however, among the school's curriculum are courses in the G-E Autopilot, the aircraft computer, the B-29 remote control turret system, locally controlled

### C. V. A. Pushing 'Fighting Guardsman'

"Ticket sales are not going as well as they could," is what the Campus Veterans Association tells us, regarding their benefit show at the Uptown Theater next Tuesday and Wednesday. Willard Parker and Anita Louise are featured in the "Fighting Guardsman." Also on the bill is "This Is America" and a short.

The net proceeds from this two-date feature are to be given to the CVA, who plan to purchase and present to the school a memorial to honor those of the school who gave their lives in the war.

As one vet put it, "You'll be going into your exams relaxed, you'll be helping out our organization, and you'll be doing something for the school. It's not often that you can do all three things at once."

turrets, the P-61 turret system, the A-26 turret system, instrument flying, gun directors, and Servo mechanisms, which are power amplifying devices used in gun turrets.

Believed one of the most essential courses is the study of the highly intricate computer mechanism, more commonly referred to as a B-29 gunner's "brain in a box." Technically, this precision electromechanical instrument relieves the gunner of estimating correction necessary for gravity, windage, palallex, and lead. The gunner simply draws a bead directly on the target, and the computer then locates a point in the air where the stream of fire and the target will meet. In five weeks' time, students have learned the

(Continued on Page 3)

### DEAN WILSON ARRIVES BACK HOME

#### It Ain't Funny, McBurp

Finchley McBurp, a good pal and creditor of long standing, recently wrote at the bottom of his latest dunn, "Read For The Love of Knowledge by D. E. Eb-bitt, June, 1945, Esquire."

Mr. McBurp was the possessor of a year's subscription to Esquire, it having been presented to him shortly before his nineteenth trip to an induction center. As Finchley is always turned down because of fundamental callouses, he now spends time between trips to his draft board by reading the Printed Matter in Esquire. We vaguely remembered the cartoons that month and tracked down the particular number and read the story, for it developed that Love of Knowledge was a story.

It is an old story—as old as colleges and universities, no doubt. We wouldn't doubt but that the tale was first enacted when adolescent little Neanderthals studied the "Rise and Fall of the Cro-Magnon Empire" or maybe we've got 'em reversed.

At any rate our tale is concerned with the purely Rhetorical question, Shall We Flunk 'Em Like They Deserve( or Pass and Graduate 'Em Like They Expect? We called it a Rhetorical Question because we all know a rhetorical question is defined as one that is used for effect and not necessarily requiring an answer.

The implications of the tale are numerous and should you, gentle reader, follow Love of Knowledge to an end, you should grasp them all with no difficulty. You should realize the problems, moral and honorable problems, that many instructors face. You should realize the close parallels between the hypothetical Professor in the story and his counterparts on our campus. You will immediately recognize the other characters, too. They are unmistakable.

We'll try to have the June Esquire placed in the Library for you. Don't be bashful. Step up and ask 'em for it so you, too,

Dean Curtis L. Wilson is scheduled to arrive back at his desk today after a six weeks absence. The Dean and his family visited the Ozarks and spent their time in the Joplin area of the state.

Since this closes the first vacation Dean Wilson has taken since coming to Rolla in 1941, it was certainly earned, and undoubtedly enjoyed to the utmost. To Dean Wilson, Welcome Home, and to Professor R. Z. Williams, who acted for Dean Wilson, Thank You, Sir.

Back last week was G. R. Guinnup, Instructor in Mechanical Engineering, on leave, and in the Army as Captain. After a quick trip around the campus Captain Guinnup announced that he would be back, the Army willing.

A Sabbatical leave of absence, granted to Professor Clifford H. Black, will be up in September when Professor Black will again be seen on the top floor of Norwood.

Prof. Black's leave was spent at Massachusetts Institute of Technology where he finished work for his Master's Degree in Architecture. Besides welcoming Prof. Black we would want to say the same to his son, Charles, who will enter the School of Mines in September.

### MR. HERMAN LARK TO SPEAK TOMORROW NIGHT

Mr. Herman Lark of Steelville will speak to the student chapter of the AIME.

Mr. Lark will speak about "The Cherry Valley Filled Sink Deposits." Everyone interested is cordially invited to attend. Mr. Lark is well known in this region and his talk should prove to be of considerable interest.

The meeting will be held in 123 Met Building starting at 7:30 tomorrow night. Refreshments will be served following the program.

can chuckle—and wonder.

The most outstanding product chemistry has given the world is blondes.

### COMMENCEMENT WEEK PROGRAM

1945

THURSDAY, AUGUST 23 - 8:30 P. M. — DEAN'S GARDEN

FACULTY RECEPTION TO STUDENTS,

PARENTS, AND VISITORS

FRIDAY, AUGUST 24 - 8:00 P. M. — PARKER HALL

COMMENCEMENT EXERCISES

HONORABLE EMERY W. ALLISON

State Senator

ROLLA, MISSOURI



## THE MISSOURI MINER



THE MISSOURI MINER is the official publication of the students of the Missouri School of Mines and Metallurgy. It is published at Rolla, Mo. every Tuesday during the school year. Entered as second class matter February 8, 1945 at the Post Office at Rolla, Mo., under the Act of March 3, 1879.

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## As a MINER Sees it

It has finally happened—our tall, lanky and dull friend from Pi K A has finally gotten up enough courage to ask a girl if she would wear his fraternity pin. What do you think happened, the poor thing accepted. Good luck my dear, you will need it.

There have been many tales told but one of the better ones is about jealous Rosy. Mottin has been keeping her guessing lately. Betty Johnson has been the girl in the middle. Poor, poor Rosy slaves away at the swimming pool, while that rat Mottin goes out and paints the town red with Johnson. Keep your chin up Rosy, my money is on you.

Wally Kiburz, I should say "Two-Point Wally," has become quite a book-worm of late. I wonder why he is not his usual gay self, maybe it is because he has turned over a new leaf. I really wonder.

About our graduate student, our one and only chem. graduate student, quit your griping, as was once said before soreheads are a dime a dozen and are respected as much as anything else that cheap. Maybe you might take this advice for your own good.

Rolla was again haunted by that frightful zombie, from Pi K A, none other than the great Salisbury. Salisbury is really a pretty nice fellow, it's just that his mind hasn't developed with his body and you know how much that has developed.

Rigo Saenz has finally given the coach a break and decided to come out for a few days of football practice. Let me say right here and now our big handsome Mexican has all the potentialities of a good tackle. Please Rigo do not wait too long when fall practice comes around. We need all the fellows we can get.

Two of the old Lambda Chi's were seen around the town the last few days. They are our old friends Jerry Holmes and Tommy Ryan. Jerry is a 1st class seaman and is in training as a radar technician. Tommy, who by the way has been discharged, was stationed at Camp Livingston. Tommy intends to be back here with us in the fall.

John: "Gee, until now I never realized that Sue has a mighty pretty leg."

Nick: "Oh, I've felt that all along."

## LETTERS TO THE EDITOR

Rolla, Missouri  
August 9, 1945

To the Missouri Miner  
Rolla, Missouri

Gentlemen:

The question that I have raised in this letter is absolutely my own opinion, but it is a question that is also shared by the Managing Editor of your paper. He informed me that he had desired to formulate an editorial policy regarding the facts listed below, but has been prevailed upon not to do so by some person or persons, whose names he will not divulge. Therefore, we are using this method of putting an editorial, with which he wholeheartedly agrees, into the paper of which he is Managing Editor.

In this school we have a very fine system of allowing students to work and earn money as assistants in the various departments about the campus. This is an excellent idea. The student gains experience in his field, and he earns extra money. However, let's take a little closer look at the way the system operates before we praise it too highly.

First, let's look at the Chem. Department. If a student works as an assistant in this department, the exact number of hours that he works is recorded by the instructor in the lab. Let us suppose that that student works two afternoons a week in the laboratory. He earns thirty-five (35) cents per hour. His time for the week will be six hours; for the month about twenty-seven hours—and he will receive a check for nine dollars and fifty-five cents (\$9.45) for his work.

Now let us move over to the athletic department. For example, the athletic department during the month of March, 1945, paid its eight (8) student assistants a total of \$149.80. This means that if these men were paid at a rate of 35¢ per hour (which is supposed to be standard for student assistants) they worked a total of four hundred and twenty-eight (428) hours.

Now these 8 assistants had the job of helping run the intramural sports program, doing various odd jobs around the gym, and helping with the freshmen who are required to take one semester of physical education. Of course this should not be considered an exceptionally large number of assistants for the duties listed above, as the athletic department likes to reward students who play varsity sports with jobs. However, it may occur to someone that we haven't had any varsity sports for about a year, that there are very few freshmen taking physical education.

(Continued on Page 3)



## Off the Campus

Climaxing a period of mirth and laughter commonly known as "Fun Week" the following men, tried and true, were initiated into Gamma Xi Chapter of the Sigma Nu Fraternity: Lloyd Kohrs, Freshman Undecided from Riverview Gardens, St. Louis County; and Fred Hawthorne, Freshman Chemical from Rolla. These men are expected to prove a very valuable addition to the Chapter.

The membership of Sigma Nu for the Summer Semester has been rather low and the kitchen has not been open; but with the beginning of the Fall Semester a dozen or so Actives, who dropped out for the summer are expected back and the kitchen will again be open probably for Freshman Week.

### PI KAPPA ALPHA

The Pikes are playing host to Carl Szczepanski, their newest pledge, who hails from St. Louis. Carl, who was recently discharged from the Army, is residing with the Pikes until the Fall Semester begins.

An old Alumnus, who will return to school for another degree, dropped in the other day for a short visit, and asked where he could store some weight. He's the Heavyweight Weight Lifting Champion of the country and is pointing for the next Olympic games: Frank Schofro. Frank, too, was discharged recently, and is marking time until the fall term starts.

Surprise, surprise, surprise. "Baron" Salisbury was in town last weekend, too. The "Baron" is undecided about school for a while since he advises us that he is Assistant to the Chief Aerodynamist of McDonnell Aircraft Corporation in St. Louis.

### G-E TRAINS TECHNICIANS

(Continued from Page 1)

'know how' of this intricate mechanism and are now passing on to others the ability to maintain and repair this equipment.

One of the most dramatic courses conducted was that on the B-29 remote control turret system in which gunnery problems were studied. The course emphasized realism to the point

where only actual flying, bullets and flak were absent. "Props" set up included wooden structures built to the same dimensions as the gunners' locations on a Superfortress with even elbow room identical. Projected on a screen 20 feet from the structures was a moving picture of an enemy plane attacking. The enemy might suddenly swoop in from behind a cloud or might grow gradually from the size of a dot in the distance.

The student, using a standard B-29 sighting station, completed all operations of a gunner on a B-29 under attack. While thus engaged, he heard simulated battle noise, and each time he pressed a trigger, he heard simulated gunfire. As the Army later set up a similar course in its own schools, this particular study was dropped from the G-E curriculum.

The G-E Autopilot, which installed in a trainer has been popularly dubbed "Otto," is used mostly to give maintenance men a knowledge of its operation and functions and an ability to ground check and maintain the equipment.

Instructors in this course become "super gremlins," open electrical connections, put in defective electronic tubes, and in general set up as many defects as possible. Students then must trouble shoot the equipment, report and rectify the defects.

The Autopilot is designed to relieve a combat pilot from constantly flying his ship manually, but before the Autopilot takes over, the pilot must perform a proper sequence of operations. These operations if not in proper order, might cause the ship to lurch, dive, bank or turn. Students receive instruction in these operations as well as in maintenance of the Autopilot trainer.

The course, in which enrollment comprises mostly G-E engineers, is on instrument flying. Using a Link Trainer which can duplicate practically all flight conditions, the engineer learns how to taxi, take off, climb, bank, turn, dive, pull out of a spin, stay on the beam, fly by instrument, fly a beam by radio, and come in for a landing—all while still on the ground.

Instructors in the instrument flying course include an ex-RCAF pilot, with more than 1,000 hours in the air who has flown the Atlantic many times; an ex-airlines pilot with 6,000

hours to his credit; and a girl who holds a mechanical engineering degree, a pilot's license, and a radio operator's and station license.

### LETTERS TO THE EDITOR

(Continued from Page 2)

tion, and that the only intramural activity was boxing and wrestling for two nights.

This left the coach sitting up all night thinking up enough odd jobs to keep his 8 assistants busy for 428 hours a month.

Now, according to my slide rule, this means that there were thirteen point eight (13.8) hours of work a day, for 31 days, performed at the gym during March.

Obviously, this is just a bit too far fetched even for my imagination.

Now let me ask the question: Why is some students' time worth only 35¢ an hour while other students, according to their own estimates, time is worth from \$1.00 an hour and up?

Sincerely,

J. M. McKelvey.



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### A Promising Boy

First Prof.: There's a lad with good stuff in him.

Second Prof.: Let's follow him; maybe we can find out where he got it.

A cross-eyed girl may be virtuous, but she doesn't look straight.

Mandy: I can't come to work tomorrow, mam. My little boy is sick.

Mam: Why Mandy, I thought you said you were an old maid.

Mandy: Ah is, but ah ain't one of them fussy kind.

Who are those people doing the cheering asked the recruit as the soldiers marched to the train.

Those are the people who are not going replied the veteran.

This is the story of Johnny McGuire,

Who ran thru the town with his trousers on fire.

He went to the doctor's and fainted with fright

When the doctor told him his end was in sight.

—Jack-O-Lantern.

Padre—You'll ruin your stomach, my good man, drinking that stuff.

Old Soak—'Sall right, 'sall right, it won't show with my coat on.—Ex.

### ANOTHER POME

Whatever trouble Adam had,  
No man could make him sore  
By saying, when he told a joke,  
"I've heard that one before."

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### HAIR, HAIR

"May I kiss your forehead?"  
"Not unless you want a bang in the mouth."

### A POME

Really now  
Girls  
Isn't it  
Awful  
To be  
Watching  
A sunset  
With him,  
And have  
Him say  
How beautiful!"  
And then  
Find that  
He's really  
Looking at  
The sunset.

An unfortunate drunkard named Sidney  
Drank beer till he ruined a kedney.

The skin of this fellow  
Was turned to bright yellow.  
He sure had a time of it, didney?

Oddly enough, after a girl has played with fire for a few years, she's anything but hot stuff.

Lifeguard: "Sir, I have just resuscitated your daughter."

Father: "Then you'll have to marry her, by gum."

The average boy doesn't mind what kind of a system a girl uses in petting, provided it's not a cooling system.



"Dad says it's the only way to keep track of six daughters."

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